

Serial No. 08/944,850  
Filed: October 6, 1997

groups.

44. A method according to claim 39 wherein said sensor elements comprise oligonucleotides.

45. A method according to claim 39 wherein said first target analyte is an oligonucleotide.

46. A method according to claim 39 wherein prior to said summing, the baseline of said first fluorescent signals are adjusted.

---

47. A method according to claim 39 wherein the signal-to-noise ratio is increased as a result of said summing.

48. A method according to claim 39 wherein said sensor array comprises a fiber optic bundle. --

---

#### REMARKS

Claims 39-48 are pending. A copy of the currently pending claims is appended hereto. Support for the new claims is found throughout the specification and claims as filed. In particular claim 39 finds support in claims 21 and 26 as filed. In addition, claim 39 finds support at p. 13, line 7. Claim 40 finds support throughout the specification as filed, for example at p. 9, line 14, and p. 12, lines 14-20. Support for claim 41 is found throughout the application and claims as filed.. Support for claim 42 is found throughout the application, for example at p. 12, line 5. Support for claim 43 is found at p. 24, line 6. Support for claims 44 and 45 is found in Table IV. Support for claim 46 is found in claim 18 as filed. Support for claim 47 is found in claims 18 and 19 as filed and throughout the specification as filed. Support for claim 48 is found throughout the specification and claims, for example claim 24, as filed.

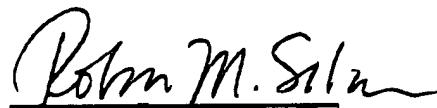
Serial No. 08/944,850  
Filed: October 6, 1997

**CONCLUSION**

Applicants submit that the claims are now in condition for allowance and an early notification of such is solicited. Please direct any calls in connection with this application to the undersigned at (415) 781-1989.

Respectfully submitted,

FLEHR HOHBACH TEST  
ALBRITTON & HERBERT LLP



Robin M. Silva  
Reg. No. 38,304

Four Embarcadero Center, Suite 3400  
San Francisco, CA 94111-4187  
Telephone: (415) 781-1989  
Dated: 11/2/00  
1034323

Serial No. 08/944,850  
Filed: October 6, 1997

Appendix: Pending claims

- -39. An assay method comprising:

a) providing a sensor array comprising:

- i) at least a first subpopulation comprising first sensor elements; and
- ii) a second subpopulation comprising second sensor elements;

b) adding a sample comprising a first target analyte that binds to said first sensor elements;

c) measuring first fluorescent signals of at least two of said sensor elements of said first subpopulation; and

d) summing said first fluorescent signals.

40. A method according to claim 39 further comprising:

b) adding a sample comprising a second target analyte that binds to said second sensor elements;

c) measuring second fluorescent signals of at least two of said sensor elements of said second subpopulation; and

d) summing said second fluorescent signals.

41. A method according to claim 39 wherein said elements comprise beads.

42. A method according to claim 39 wherein said sensor array comprises beads distributed in wells.

43. A method according to claim 39 wherein said sensor elements comprise chemical functional groups.

44. A method according to claim 39 wherein said sensor elements comprise oligonucleotides.

45. A method according to claim 39 wherein said first target analyte is an oligonucleotide.

46. A method according to claim 39 wherein prior to said summing, the baseline of said first fluorescent signals are adjusted.

47. A method according to claim 39 wherein the signal-to-noise ratio is increased as a result of said summing.

48. A method according to claim 39 wherein said sensor array comprises a fiber optic bundle.- -

08 | 94850

P.1

FLEHR  
HOHBACH  
TEST  
ALBRITTON  
& HERBERT

*Facsimile Transmittal**Patent, Trademark & Copyright Law*

Four Embarcadero Center  
Suite 3400  
San Francisco, CA  
94111-4187

Phone: (415) 781-1989  
Telecopier: (415) 398-3249

TO: Box AF  
Patent Office  
FAX: 1/703/308-0956 7722  
FROM: Alison Bowden for Anne Shyjan  
DATE: February 13, 2001  
RE: AF Amendment

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET: 9

FAX COPY RECEIVED

FEB 13 2001

TECHNOLOGY CENTER 2800

---

IMPORTANT/CONFIDENTIAL: This facsimile communication is intended only for the use of the individual or entity to which it is addressed. The following pages contain information which may be privileged and/or confidential. If the reader of this facsimile is not the intended recipient, or the employee or agent responsible for delivering the facsimile to the intended recipient, you are hereby notified that any disclosure of the contents, or dissemination or distribution of this facsimile to others, or copying of this communication, is strictly prohibited. If you have received this communication in error, please telephone us immediately, (415) 781-1989, and return all copies of this facsimile to us by mail. We thank you for your cooperation. 562861